ABSTRACT OF THE DISCLOSURE

The present invention provides a cellular communication system that includes a central radio pool/traffic router (CRP/TR) that sends control and traffic signals over fiber optic transmission links that connect the CRP/TR with base stations of the cellular communication system. The high bandwidth capacity of each fiber link allows a large band of radio frequencies representing many radio channels to pass between the CRP/TR and individual base stations. Radio resources can be shared by all base stations in the cellular communication system, dynamically, when and where needed, to meet access demands throughout the system. The CRP/TR includes low-powered digital and/or analog radios and also switching and modulation means used to convey signals between the radios and various base stations within the system.